RAW SEQUENCE LISTING PATENT APPLICATION US/08/812,393A

DATE: 07/07/98 TIME: 09:45:43

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This Raw Listing contains the General Information Section and up to the first 5 pages.

1		SEQUENCE LISTING ENTEREL
2 3	(1)	
4	, – ,	
5		(i) APPLICANT: SHERMAN, Linda A.
6		LUSTGARTEN, Joseph
7 8		(ii) TITLE OF THE INVENTION: RECOMBINANT CONSTRUCTS ENCODING
9		T CELL RECEPTORS SPECIFIC FOR HUMAN HLA-RESTRICTED TUMOR
10		ANTIGENS
11		
12		(iii) NUMBER OF SEQUENCES: 64
13		
14		(iv) CORRESPONDENCE ADDRESS:
15 16		(A) ADDRESSEE: MORRISON & FOERSTER (B) STREET: 2000 Pennsylvania Avenue, NW, suite 5500
17		(C) CITY: Washington
18		(D) STATE: DC
19		(E) COUNTRY: USA
20		(F) ZIP: 20006-1888
21		
22		(V) COMPUTER READABLE FORM:
23 24		(A) MEDIUM TYPE: Diskette (B) COMPUTER: IBM Compatible
25		(C) OPERATING SYSTEM: DOS
26		(D) SOFTWARE: FastSEQ for Windows Version 2.0
27		
28		(vi) CURRENT APPLICATION DATA:
29		(A) APPLICATION NUMBER: 08/812,393
30		(B) FILING DATE: 05-MAR-1997
31 32		(C) CLASSIFICATION:
33		(vii) PRIOR APPLICATION DATA:
34		(A) APPLICATION NUMBER:
35		(B) FILING DATE:
36		
37		
38		(
39 40		(viii) ATTORNEY/AGENT INFORMATION: (A) NAME: Murashige, Kate H
41		(B) REGISTRATION NUMBER: 29,959
42		(C) REFERENCE/DOCKET NUMBER: 31333-20001.00
43		
44		(ix) TELECOMMUNICATION INFORMATION:
45		(A) TELEPHONE: 202-887-1500
46		(B) TELEFAX: 202-822-0168

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47			(C)	TEL	ΞX:												
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50			(2) INI	FORM	ATIO	N FOI	R SE	O ID	NO:	1:						
51																	
52	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 1350 base pairs																
53			(A)	LENG	GTH:	1350) bas	se pa	airs								
54			(B)	TYPI	Ξ: nι	ucle	ic a	cid									
55			(C)	STRA	ANDE	DNES	3: d	ouble	9								
56			(D)	TOP	DLOG	Y: 1:	inea	r									
57																	
58		(:	ix) l	FEAT	JRE:												
59	(A) WANT (VIIV. Coding Company																
60	(A) NAME/KEY: Coding Sequence																
61			(B) LO	CATIO	on:	1	1332									
62	(B) LOCATION: 11332 (D) OTHER INFORMATION:																
63	12/ 21121																
64		(:	xi) S	SEQUE	ENCE	DESC	CRIP	rion	: SE	Q ID	NO:	L:					
65		•	•	_													
66	CTC	GAG	ATG	CAG	AGG	AAC	CTG	GGA	GCT	GTG	CTG	GGG	ATT	CTG	TGG	GTG	48
67															Trp		
68	1				5			•		10		-			15		
69	_																
70	CAG	ΔТТ	TGC	TGG	CTG	AAA	GAA	CAG	CAA	GTG	CAG	CAG	AGT	CCC	GCA	TCC	96
71															Ala		
72	01	110	C 7 .5	20	200	1	O_L	92	25		0			30			
73	-																
74	mm.c	CTT	CTC	CAG	GAG	aga	GAG	AAC	CCA	GAG	CTC	CAG	тст	AGC	TTT	ጥሮሮ	144
75															Phe		
76	rea	Val	35	GIN	GIU	GIY	GIG	40	AIG	Olu	шса	01.11	45	DCI	1110	DC1	
77			33					40					4 3				
78	N TO C	mmm	A C A	A A C	CAG	ama	CAG	maa	ጥጥጥ	ሞልሮ	CAA	ССТ	CCT	ggg	GGA	AGA	192
78 79															Gly		172
80	TTE	50	1111	ASII	GIII	Val	55	TIP	rne	Tyr	GIN	60	110	GLY	Ory	Arg	
-		30					33					00					
81	ama.	ama	N C C	CTC	TTTC	ma c	יח גג	cam	TOT	aaa	አሮአ	AAG	CAG	λст	GGG	λGλ	240
82															Gly		240
83		val	ser	rea	Leu	_	ASII	PIO	Ser	GIY	75	гуз	GIII	Ser	GTY	80	
84	65					70					/ 3					30	
85	аша	202	maa	202	3 (13	ama	x mm	* * *	C 3 3	oom.	ccc	ACC	TOTAL	mmc	CAC	አ ጥጥ	288
86																	200
87	Leu	THE	Ser		85										His	TIE	
88					83					90					93		
89	m aa		maa	a.a) ma		a.a	max	000	3.00	m . m	ama	mam	000	ma s	3 3 173	226
90															TCA		336
91	Ser	Ser	Ser		TTe	Thr	Asp	ser		Thr	ryr	Leu	cys		Ser	ASN	
92				100					105					110			
93													000			ar.a	204
94															AAA		384
95	Ser	G⊥y		Ser	Asn	Ala	Lys		Thr	Pne	GΤλ	ьуs		Tnr	Lys	ьeu	
96			115					120					125				
97													~~-	m.c		aam	4.2.0
98															GGG		432
99	Ser	Val	Lys	Ser	Gly	Gly	Gly	Gly	Ser	Gly	Gly	GГУ	Gly	Ser	Gly	$gt\lambda$	

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100		130					135					140					
101																	
102					GCT												480
103	Gly	Gly	Ser	Glu	Ala	Ala	Val	Thr	Gln	Ser		Arg	Asn	Lys	Val		
104	145					150					155					160	
105																	
106	GTA	ACA	GGA	GGA	AAG	GTG	ACA	TTG	AGC	TGT	AAT	CAG	ACT	AAT	AAC	CAC	528
107	Val	Thr	Gly	Gly	Lys	Val	Thr	Leu	Ser	Cys	Asn	Gln	Thr	Asn	Asn	His	
108			_	_	165					170					175		
109																	
110	AAC	AAC	ATG	TAC	TGG	TAT	CGG	CAG	GAC	ACG	GGG	CAT	GGG	CTG	AGG	CTG	576
111					Trp												
112				180	-	-			185		-		-	190	_		
113																	
114	ATC	CAT	ТАТ	TCA	TAT	GGT	GCT	GGC	AGC	ACT	GAG	AAA	GGA	GAT	ATC	CCT	624
115					Tyr												
116		•	195		- 1 -	1		200					205	-			
117																	
118	САТ	GGA	тас	λAG	GCC	TCC	ΔGA	CCA	AGC	CAA	GAG	AAC	TTC	TCC	CTC	ATT	672
119					Ala												
120	ASP	210	1 7 1	БуБ	ALG	Der	215	110	501	O 1	014	220					
121		210					213					220					
122	CTC	CAC	ምምር	CCT	ACC	CCC	ጥርጥ	CAG	ΔαΔ	ጥ ሮ ል	GTG	TAC	TTC	тст	GCC	AGC	720
123					Thr										_		, 20
124	225	GIU	Dea	AIG	1111	230	Der	GIII	1111	JCI	235	- 7 -	1 110	0,5	11.1.0	240	
124	225					230					233					240	
126	CCT	CAC	N C N	aaa	ACC	220	~ A A	A C A	מיחים	աա	TTTC	CCT	CAT	GGA	እሮሮ	AAG	768
127					Thr												, 00
	GTA	GIU	1111	GIY		ASII	GIU	Arg	rea	250	FIIE	Сту	1113	GIY	255	Буз	
128					245					250					233		
129	ama	mam	ama	аша	ACT	a am	220	шаа	N III CI	N TO C	m a c	mma	N.C.C	CAC	መመረ	CTC	816
130					Thr												010
131	Leu	Ser	vaı		THE	zer	ASII	Ser		Met	ıyı	Pne	Ser	270	Fne	Val	
132				260					265					270			
133	999	ama	mma	ama	CCA	aaa		aaa	3 G G	100	N CC	aa a	aaa	acc	CCA	CCA	864
134																	004
135	Pro	vaı		Leu	Pro	АТА	гуѕ		THE	1111	1111	PIO		PIO	Arg	PIO	
136			275					280					285				
137	aa.		000	000	aaa		» ma	000	таа	a s a	aaa	ama	maa	ama	CCC	CCA	912
138					CCC												912
139	Pro		Pro	АТА	Pro	THE		АТА	Ser	GIII	PIO		Ser	Leu	Arg	PIU	
140		290					295					300					
141	mam	• am	mam		C N III	aaa		ата	шаа	ma a	ama	ama	CI A ITT	CCA	N TO C	OTIO.	960
142					GAT												960
143		Ser	Ser	Arg	Asp		Lys	Leu	cys	Tyr		Leu	ASP	GIA	тте		
144	305					310					315					320	
145					a=~		a==	. ~ -	~~~	mm a	mm	ama		ama	* * ~	mma	1000
146					GTC												1008
147	Phe	Ile	Tyr	GŢÀ	Val	He	Leu	Thr	Ala		Pne	Leu	arg	va⊥		Pne	
148					325					330					335		
149																~	1256
150					GAC												1056
151	Ser	Arg	Ser		Asp	Ala	Pro	Ala		GIn	Gln	GТÀ	Gln		GIn	Leu	
152				340					345					350			

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153				ama		am.	993	001		a.a	a.a	ma a	C N ITT	amm	mma	G N G	1104
154					AAT												1104
155 156	туг	ASN	355	Leu	Asn	Leu	сту	360	ALG	GIU	GIU	ıyı	365	Val	цец	кэр	
156			333					200					303				
157	λAC	AGA	ССТ	aac	CGG	GAC	ССТ	GAG	ΔТС	ggg	GGA	ΔAG	cca	AGA	AGG	ΔAG	1152
159					Arg												
160	575	370	9	017	9		375			- 1	- 1	380		9	5	-1-	
161		0,0															
162	AAC	CCT	CAG	GAA	GGC	CTG	TAC	ААТ	GAA	CTG	CAG	AAA	GAT	AAG	ATG	GCG	1200
163					Gly												
164	385				•	390	•				395	•	-	-		400	
165																	
166	GAG	GCC	TAC	AGT	GAG	ATT	GGG	ATG	AAA	GGC	GAG	CGC	CGG	AGG	GGC	AAG	1248
167	Glu	Ala	Tyr	Ser	Glu	Ile	Gly	Met	Lys	Gly	Glu	Arg	Arg	Arg	Gly	Lys	
168					405					410					415		
169																	
170					CTT												1296
171	Gly	His	Asp	_	Leu	Tyr	Gln	Gly		Ser	Thr	Ala	Thr		Asp	Thr	
172				420					425					430			
173																	
174													'I'AA(3CGG(CCG (CCACCG	1348
175	Tyr	Asp		Leu	His	мет	GIN		Leu	Pro	Pro	Arg					
176			435					440									
177 178	CG																1350
179	CG																1550
180			12	TNE	ORM	тотт	v FOE	R SEC) ID	NO:2	2:						
181			(-)						•								
182		(1	i) SI	EQUE	NCE (CHARA	ACTE	RIST	cs:								
183		•	(A)	LENG	GTH:	444	amir	no ac	ids								
184			(B)	TYPE	E: ar	nino	acio	f									
185					ANDEI				į								
186			(D)	TOP	OLOGY	7: li	inear	r r									
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188					CULE		_		_								
189		7)	7) F	RAGME	ENT T	YPE:	int	terna	11								
190						2200			a=.								
191		(2	(1) 5	SEQUE	ENCE	DESC	CRIP	LION	SEÇ	מו נ	NO: 2	:					
192	Т отт	a1	Mo+	a1 ~	N ~~~	N.a.n	Lau	c1.,	A 7 a	Val	T 011	C1.,	T10	LOU	Trn	Val	
193 194	ьeu	GIU	met	GTU	Arg	ASII	Leu	стА		10	геп	оту	TIG	геп	11D	AGT	
	Cln	T10	Cuc	Trn	Leu	Tue	Clu	Cln			Gln	Gln	Sar	Dro	λla	Ser	
195 196	0111	TTG	Cys	20	Leu	⊔у⊳	GIU	GIII	25	AGT	9111	9111	Det	30	VIG	501	
197	T.eu	Val	Len		Glu	Glv	Glu	Asn		Glu	Len	Gln	Cvs		Phe	Ser	
198	<u>u</u> -cu	7 U I	35	0111	U14	- Y	<u> </u>	40				J.1.1	45	~~~			
199	ΠA	Phe		Asn	Gln	Val	Gln		Phe	Tvr	Gln	Ara		Glv	Glv	Ara	
200		50					55	E		- 1 -		60		1	1	J	
201	Leu		Ser	Leu	Leu	Tyr		Pro	Ser	Gly	Thr		Gln	Ser	Gly	Arg	
202	65					70				_	75	•			_	80	
														_			
203	Leu	Thr	Ser	Thr	Thr	Val	Ile	Lys	Glu	Arg	Arg	Ser	Ser	Leu	His	Ile	
203 204	Leu	Thr	Ser	Thr	Thr 85	Val	Ile	Lys	Glu	Arg 90	Arg	Ser	Ser	Leu	His 95	Ile	
								•		90					95		

257 258

(vi) ORIGINAL SOURCE:

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															UIS	EII S.
206			_	100		_			105	_	_		_	110	_	_
207	Ser	Gly	Gly	Ser	Asn	Ala	Lys		Thr	Phe	Gly	Lys		Thr	Lys	Leu
208			115					120					125			
209	Ser	Val	Lys	Ser	Gly	Gly	Gly	Gly	Ser	Gly	Gly	Gly	Gly	Ser	Gly	Gly
210		130					135					140				
211	Gly	Gly	Ser	Glu	Ala	Ala	Val	Thr	Gln	Ser	Pro	Arg	Asn	Lys	Val	Ala
212	145	_				150					155					160
213	Val	Thr	Gly	Gly	Lys	Val	Thr	Leu	Ser	Cys	Asn	Gln	Thr	Asn	Asn	His
214			-	-	165					170					175	
215	Asn	Asn	Met	Tyr	Trp	Tyr	Arg	Gln	Asp	Thr	Gly	His	Gly	Leu	Arg	Leu
216				180	-	-			185		-		-	190	_	
217	Ile	His	Tvr		Tvr	Glv	Ala	Glv	Ser	Thr	Glu	Lvs	Gly	Asp	Ile	Pro
218			195		- 1 -	1		200					205			
219	Asp	Glv		Lvs	Ala	Ser	Arg		Ser	Gln	Glu	Asn		Ser	Leu	Ile
220	пор	210	- 3 -	_,_	nia	501	215	110	501	01	0_0	220				
221	Len		r.eu	Δla	Thr	Pro	Ser	G1n	Thr	Ser	Val		Phe	Cvs	Ala	Ser
222	225	014	пса	7.10		230	Der	01		501	235	- 1 -	1 110	0,10		240
223		Glu	Thr	Glv	Thr		Glu	Δra	Len	Phe		Glv	His	Glv	Thr	
224	Ory	OIG		017	245	ADII	014	9	200	250	1110	01,		- -,	255	-1-
225	T. 6 11	Ser	Val	T.e.11		Ser	Asn	Ser	Tle		Tur	Phe	Ser	His		Va1
226	ьса	501		260	••••	201		201	265		- 3 -			270		
227	Pro	Val	Phe		Pro	Δla	Lys	Pro		Thr	Thr	Pro	ΔΊа		Ara	Pro
228	110	• · · ·	275	200	110		2,2	280					285		5	
229	Dro	Thr		λΊз	Pro	Thr	Ile		Ser	Gln	Pro	T.e11		T.e11	Δτα	Pro
230	110	290	110	AIG	110		295	n_u	501	01		300	501		9	
231	Sor		Sor	λra	Aen	Dro	Lys	Len	Cve	TT to Tr	LON		Men	Glv	Tla	T.e.11
232	305	Ser	Ser	Arg	ASP	310	цуз	пеа	Cys	- y -	315	дса	АБР	O _T y	110	320
		тло	m	G1.,	U a T		Leu	Thr	A 1 a	Lou		LOU	A ra	บรไ	Tue	
233	Pne	тте	TYL	GIY	325	тте	reu	1111	АТа	330	File	red	Arg	Val	335	Fire
234	~ ~ ~	A	C ~ ~	87.0		1 T a	Pro	3 T a	m		cl n	C1 11	aln	A c n		T 011
235	ser	Arg	ser	340	ASP	АТА	PIO	АТА	345	GIII	GIII	СТУ	GIII	350	GIII	ьец
236	III		a 1		1 ~ ~	T	Gly	N == ~		a1.,	a 1.,	Ш	3 ~ ~		T 011	a an
237	TAL	ASII		Leu	ASI	ьeu	GLY	360	Arg	GIU	GIU	ıyı	365	Val	Leu	мар
238	r	3	355	a1	A ~~	Nan	Pro		Mot	c1	C1.,	Luc		Ara	Ara	Tuc
239	гуз	-	Arg	GLY	Arg	ASP	375	GIU	мес	сту	СТУ	380	PIO	Arg	Arg	гур
240	1	370	۵1 م	a1.,	a1.,	Lou	Tyr	1 an	61 11	Lou	al n		A c n	T v.c	Mot	λla
241	385	PIO	GIN	GIU	GIY	390	ıyı	ASII	GIU	Leu	395	ьуз	ASP	БУЗ	мес	400
242		8 T G	m	C - ~	a 1		Gly	Mot	Luc	C111		120	2 ~~	Ara	C1 11	
243	GIU	Ald	ıyı	ser	405	116	GTA	Mec	гуз	410	GIU	Arg	Arg	Arg	415	БУЗ
244	a 1	77 i ~	1	al		Ш	Gln	a1,,	T 011		Thr.	3 1 2	mb =	Lvc		Thr
245	GLY	nıs	ASP	_	Leu	туг	GIII	сту		261	1111	мта	1111	430	АБР	1111
246			.1.	420	***	14-4	Gln		425	Dwo	D=0	8 ×~		430		
247	Tyr	ASP		Leu	HIS	мес	GIN		Leu	PIO	PIU	Arg				
248			435					440								
249					70 D) (1					NO - 1	٠.					
250			(2)) INI	ORMA	ALTOI	V FO	K SEQ	5 TD	NO:	3 :					
251						****		. T CIM:								
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SEQUENCE VERIFICATION REPORT PATENT APPLICATION *US/08/812,393A*

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